

**ACTIVE MAGNETOSTRICTIVE SENSOR FOR  
AUTOMOTIVE HORN OR OCCUPANT WEIGHT SENSOR**

**ABSTRACT OF THE DISCLOSURE**

An improved force-measurement system utilizes active magnetostrictive sensors for generating a signal representative of a force, such as the weight of a person or thing on a seat within a motor vehicle, or the force applied to the horn sensor switch on a vehicle steering wheel. The active magnetostrictive sensor includes an excitation coil and a detection coil.

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